



Molecular Diagnostics MDx

Genome Explorations provides Next Generation Sequencing, Genotyping Services, Clinical Molecular Diagnostics MDx, Gene Expression Analysis and miRNA Profiling services for Pharmaceutical, Biotech and Academic institutes worldwide in our State of the art CLIA Certified GLP laboratories. Our experienced scientists work one-on-one with Scientists, Researchers and Clinicians to provide a 'Complete Solution' for Genomic Services, from experimental design to in-depth data analysis and advanced bioinformatics.

Gene Expression



Scientists at Genome Explorations have worked with over 250 scientists worldwide for their gene expression and/or genotyping needs. As an industry leader in the microarray field, we have developed a series of SOP's that allow us to reproducibly generate data sets of the highest quality. Our validated protocols consistently result in sample-to-sample variability of less than 0.5% (industry standard is 2.0%).

A series of quality control tests, perfected by our scientists, are carried out on every sample the moment it is received by Genome Explorations. The tests are specifically designed to verify the suitability of samples for GeneChip array hybridization. We will notify you immediately if the samples fail any of our QC steps allowing you to replace any problematic samples before we proceed with the experiment. All samples that pass our stringent QC parameters are processed to completion using validated SOP's. All data sets generated, raw and analyzed, are delivered to our clients via secure FTP servers.

Products

Platforms

Redefine biological innovation through Next generation (NextGen) sequencing. NextGen sequencing sequences many millions of DNA fragments in parallel, which provides unprecedented scalability for whole genome sequencing, exome sequencing, RNA-seq, and gene panels. The sensitivity of NextGen technology is limitless thanks to endless depth of coverage, which permits detection of rare mutations, transcripts, and biomarkers.

Ion Torrent PGM



The PGM System* offers researchers high-quality sequencing data with the versatility to optimize runs for turn-around time or throughput. The PGM System is the next generation sequencer for every lab.

Benefits:

- Simplified sequencing
Streamlined workflows and easy-to-use software
- Rapid run time
Run a sample in as little as 8 hours

Genotyping Services

One-On-One Partnerships

Genome Explorations has expanded its portfolio of services by introducing genotyping using NextGen Sequencing and Affymetrix SNP array sets. Our scientists have developed new SOP's for genotyping services dedicated towards generating reproducible data sets of the highest quality. As with our expression protocols, our genotyping protocols are engineered with reproducibility and quality in mind and have helped us generate data sets that are published in premier tier one journals.

Applications

- High through-put screen of genome wide polymorphisms
- Disease specific association studies
- Disease specific linkage studies
- Pharmacogenomics – target identification and validation
- Haplotype testing
- Loss of heterozygosity (LOH) analysis

**For more information please
visit**

<http://www.genome-explorations.com>